【Claims】

【Claim 1】

Method for making database for use in searching digital audio data files from a first recording media,

5   said first recording media having directory information recording area where information regarding directory is recorded and data recording area where file data is recorded according to information regarding sub file of the directory recorded in said directory information recording area,

said digital audio data files including file name fields which are

10   recorded in said directory information recording area, data fields and additional information tag field which are recorded in said data recording area;

said method comprising (a) step for making directory database which is constituted by fields including name of said directory and

15   recording position of said directory in said directory information recording area, for all directories recorded in said directory information recording area;

(b) step for making file database which is constituted by fields including name of sub file and position in which said sub file is recorded in

20   said data recording area by accessing said recording position in said directory information recording area, for all directories recorded in said directory database;

(c) step for recording index information as field of said file database, said index information being used as keyword when said digital

audio data file is searched.

【Claim 2】

The method according to Claim 1, wherein said index information

5   that is used as keyword when said digital audio data file is searched is

recorded in said directory information recording area of said first

recording media, and wherein said step for recording index information

includes a step for accessing the recording position of said directory

information recording area, reading said index information and recording

10   said index information as field of said file database.

【Claim 3】

The method according to Claim 1, further comprising step for

making index information database which is constituted by fields

15   including said index information and total number of files corresponding

to said index information.

【Claim 4】

Method for making database for use in searching digital audio

20   data files from   first recording media and recording said database in

second recording media,

said first recording media having directory information recording

area where information regarding directory is recorded and data recording

area where file data is recorded according to information regarding sub file

of the directory recorded in said directory information recording area,

said digital audio data files including file name fields which are recorded in said directory information recording area, data fields and additional information tag field which are recorded in said data recording

5   area;

said method comprising (a) step for making directory database which is constituted by fields including name of said directory and recording position of said directory in said directory information recording area, for all directories recorded in said directory information recording

10   area and recording said directory database in said second recording media;

(b) step for making file database which is constituted by fields including name of sub file and position in which said sub file is recorded in said data recording area by accessing said recording position in said directory information recording area, for all directories recorded in said

15   directory database and recording said file database in said second recording media;

(c) step for inserting index information as field of said file database to said file database, said index information being used as keyword when said digital audio data file is searched and recording said it in said second

20   recording media.

【Claim 5】

The method according to Claim 4, wherein said index information that is used as keyword when said digital audio data file is searched is

recorded in said directory information recording area of said first

recording media, and wherein said step for recording index information

includes a step for accessing the recording position of said directory

information recording area, reading said index information, inserting said

5   index information as field of said file database to said file database and

recording said index information in said second recording media.

【Claim 6】

The method according to Claim 4, further comprising step for

10   making index information database which is constituted by fields

including said index information and total number of files corresponding

to said index information and recording said index information database in

said second recording media.

15   **【Claim 7】**

The method according to Claim 4, wherein said first recording

media further includes disc information recording area in which unique

information of said first recording media is recorded;

wherein said method further includes step for judging whether

20   said unique information of said first recording media read out by accessing

said disc information recording area is already recorded in said second

recording media before said step for recording directory database, said

step for recording said file database and said step for recording index

information; and

step for recording the unique information of said first recording

media if the unique information of said first recording media is not

recorded in said second recording media,

wherein said step for recording directory database, said step for

5   recording file database and said step for recording index information are

performed if the unique information of said first recording media is not

already recorded in said second recording media.

【Claim 8】

10   The method according to Claim 7, wherein said step for recording

directory database records said directory database in position associated

with position where the unique information of said first recording media is

recorded;

wherein said step for recording file database records said file

15   database in position associated with position where the unique information

of said first recording media or said directory database is recorded.

【Claim 9】

The method according to one of Claims 4 to 8, wherein said first

20   recording media is recording media that is not re-recordable and said

second recording media is recording media that is re-recordable.

【Claim 10】

Method for searching predetermined digital audio data file from a

first recording media,

said first recording media having directory information recording area where information regarding directory is recorded and data recording area where file data is recorded according to information regarding sub file

5   of the directory recorded in said directory information recording area,

said digital audio data files including file name fields which are recorded in said directory information recording area, data fields and additional information tag field which are recorded in said data recording area;

10   said method comprising (a) step for making directory database which is constituted by fields including name of said directory and recording position of said directory in said directory information recording area, for all directories recorded in said directory information recording area, and recording said directory database in said second recording

15   media;

(b) step for making file database which is constituted by fields including name of sub file and position in which said sub file is recorded in said data recording area by accessing said recording position in said directory information recording area, for all directories recorded in said

20   directory database, and recording said file database in said second recording media;

(c) step for inserting index information as field of said file database to said file database, said index information being used as keyword when said digital audio data file is searched, and recording said it in said second

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recording media;

(d) step for receiving input of name of digital audio data file to be searched;

(e) step for searching file having same name as said inputted

5   digital audio data to be searched from file name fields of said file database, and reading recording position field corresponding to searched file name field.

【Claim 11】

10   Method for searching predetermined digital audio data file from a first recording media,

said first recording media having directory information recording area where information regarding directory is recorded and data recording area where file data is recorded according to information regarding sub file

15   of the directory recorded in said directory information recording area,

said digital audio data files including file name fields which are recorded in said directory information recording area, data fields and additional information tag field which are recorded in said data recording area;

20   said method comprising (a) step for making directory database which is constituted by fields including name of said directory and recording position of said directory in said directory information recording area, for all directories recorded in said directory information recording area, and recording said directory database in said second recording

media;

(b) step for making file database which is constituted by fields including name of sub file and position in which said sub file is recorded in said data recording area by accessing said recording position in said

5 directory information recording area, for all directories recorded in said directory database, and recording said file database in said second recording media;

(c) step for inserting index information as field of said file database to said file database, said index information being used as keyword when

10 said digital audio data file is searched, and recording said it in said second recording media;

(d) step for receiving input of name of digital audio data file to be searched;

(e) step for searching file having index information conforming to

15 said inputted index information to be searched by accessing said file database.

【Claim 12】

The method according to Claim 11, further comprising step for

20 making index information database which is constituted by field including index information total number of files corresponding to said index information, and recording said database in said second recording media, wherein said step for searching file is continuously performed until total number of searched files conforms to total number of index

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information recorded in said index information database.

【Claim 13】

Computer-readable recording media where computer-executable

5   program for making database for searching digital audio data files from

first recording media, is recorded,

said first recording media having directory information recording

area where information regarding directory is recorded and data recording

area where file data is recorded according to information regarding sub file

10   of the directory recorded in said directory information recording area,

said digital audio data files including file name fields which are

recorded in said directory information recording area, data fields and

additional information tag field which are recorded in said data recording

area;

15   said program comprising (a) step for making directory database

which is constituted by fields including name of said directory and

recording position of said directory in said directory information recording

area, for all directories recorded in said directory information recording

area;

20   (b) step for making file database which is constituted by fields

including name of sub file and position in which said sub file is recorded in

said data recording area by accessing said recording position in said

directory information recording area, for all directories recorded in said

directory database;

(c) step for recording index information as field of said file database, said index information being used as keyword when said digital audio data file is searched.

5   【Claim 14】

Computer-readable recording media where computer-executable program for making database for searching digital audio data files from first recording media and recording said database in second recording media, is recorded,

10   said first recording media having directory information recording area where information regarding directory is recorded and data recording area where file data is recorded according to information regarding sub file of the directory recorded in said directory information recording area,

said digital audio data files including file name fields which are

15   recorded in said directory information recording area, data fields and additional information tag field which are recorded in said data recording area;

said program comprising (a) step for making directory database which is constituted by fields including name of said directory and

20   recording position of said directory in said directory information recording area, for all directories recorded in said directory information recording area, and recording said directory database in said second recording media;

(b) step for making file database which is constituted by fields

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including name of sub file and position in which said sub file is recorded in

said data recording area by accessing said recording position in said

directory information recording area, for all directories recorded in said

directory database, and recording said file database in said second

5   recording media;

(c) step for inserting index information as field of said file database

to said file database, said index information being used as keyword when

said digital audio data file is searched and recording said it in said second

recording media.

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【Claim 15】

Computer-readable recording media where computer-executable

program for searching predetermined digital audio data files from first

recording media, is recorded,

15   said first recording media having directory information recording

area where information regarding directory is recorded and data recording

area where file data is recorded according to information regarding sub file

of the directory recorded in said directory information recording area,

said digital audio data files including file name fields which are

20   recorded in said directory information recording area, data fields and

additional information tag field which are recorded in said data recording

area;

said program comprising (a) step for making directory database

which is constituted by fields including name of said directory and

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recording position of said directory in said directory information recording

area, for all directories recorded in said directory information recording

area, and recording said directory database in said second recording

media;

5   (b) step for making file database which is constituted by fields

including name of sub file and position in which said sub file is recorded in

said data recording area by accessing said recording position in said

directory information recording area, for all directories recorded in said

directory database, and recording said file database in said second

10   recording media;

(c) step for inserting index information as field of said file database

to said file database, said index information being used as keyword when

said digital audio data file is searched, and recording said it in said second

recording media;

15   (d) step for receiving input of name of digital audio data file to be

searched;

(e) step for searching file having same name as said inputted

digital audio data to be searched from file name fields of said file database,

and reading recording position field corresponding to searched file name

20   field.

【Claim 16】

Computer-readable recording media where computer-executable

program for searching predetermined digital audio data files from first

recording media, is recorded,

said first recording media having directory information recording area where information regarding directory is recorded and data recording area where file data is recorded according to information regarding sub file

5 of the directory recorded in said directory information recording area,

said digital audio data files including file name fields which are recorded in said directory information recording area, data fields and additional information tag field which are recorded in said data recording area;

10 said program comprising (a) step for making directory database which is constituted by fields including name of said directory and recording position of said directory in said directory information recording area, for all directories recorded in said directory information recording area, and recording said directory database in said second recording

15 media;

(b) step for making file database which is constituted by fields including name of sub file and position in which said sub file is recorded in said data recording area by accessing said recording position in said directory information recording area, for all directories recorded in said

20 directory database, and recording said file database in said second recording media;

(c) step for inserting index information as field of said file database to said file database, said index information being used as keyword when said digital audio data file is searched, and recording said it in said second

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recording media;

 (d) step for receiving input of name of digital audio data file to be

searched;

 (e) step for searching file having index information conforming to

5 said inputted index information to be searched by accessing said file

database.